AEE, YSTSD

Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

SBR No: 36/23-24

(For Other Works)

Date: 21/7/2023

No. 1st & final bill

Division: Yelahnaka Division

Sub Division: Yelahnaka Division.

Bill Received No.....Dated.....Cash Book Voucher No.....dated.....

Scheduled Docket No.....

Name of Work : Construction of Rangamandira at Doddabettahalli Govt. School in Attur ward no.04

Est. cost: 100.00 lakhs

Job Code No: 004-23-00014 P-2178

Name of Contractor and Full Address : Sri.T.S Kothanda Raju , Bangalore

Work Order No:**BBMP/EE/YNK.D/EPMT-15/W.O/123/2022-23,** **Dated : 23-02-2023**

Certified that the measurements were taken by me on 21/7/2023 and recorded in pages 586907 - 586926 of measurement Book No 5870 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurements were taken by me on 21/7/2023 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub Division Officer

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

If Memorandum of Payment

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being.....percent Rs.....
3) Deduct amount to be held in Balance
4) Deduct Payment :
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D No.....
   Amount adjusted towards cash advance recovery of
   b) Payments cost store or other materials supplied.
   Now made recovery of amount creditable to this/other work
   Amount paid on this bill Cheque/Cash
5) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the office Cash Book Voucher No..... date .....less adjustments
7) Net amount due to or from contractor

Unadjusted items

8) Advance to contractor for materials brought to site (as detailed) within value of Governme materials supplied

Gross Amt =Rs		9758000=00
FSD	=Rs	-
CGST	= Rs	82695=00
SGST	= Rs	82695=00
IT	= Rs	97580=00
LC	= Rs	97580=00
CBF	= Rs	9758=00
Royalty	= Rs	84200=00
T.D.	= Rs	454508=00
Net Amt=Rs		9303492=00

Contractor's Signature

Received Rs.....(in words)
By Cash and by adjustment of Payment as per memorandum.

Witnesses :

1.

2.

Dated..... Signature of Contractor

(For use in the Office)

Audited & Admitted for Rs. 9758000 =00

9303492 =00 by Cheque

and Rs. 454508=00 by adjusement

Accts Superintendent
Yelahanka Division
BBMP

Exe. Engineer
Yelahanka Division
BBMP

Paid by me by cheque No.....Dated.....

Cash Rs.....Dated.....

Initials of Officer Making Payment

Executive Engineer

Name of Work:-Construction of Rangamandira at Doddabettahalli Govt. ...

ABSTRACT

Sl No	Description of Work	Unit	As per Shedule -B			Previous measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate	Amount	Qty	Amount
1	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. In ordinary/soft	Cum	362.20	256.06	92744.00	–	–	361.19	256.06	92485.00	361.19	92485.00
2	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits with Chlorpyriphos	Sqm	137.02	106.22	14555.00	–	–	112.70	106.22	11972.00	112.70	11972.00
3	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification.	Cum	49.58	2863.58	141977.00	–	–	33.81	2863.58	96818.00	33.81	96818.00
4	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	36.63	228.10	8356.00	–	–	36.63	228.10	8356.00	36.63	8356.00
5	Providing and laying in position plain cement concrete Mix 1:4:8(M5) Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall	Cum	175.24	5821.09	1020088.00	–	–	165.04	5821.09	960697.00	165.04	960697.00
6	Providing and laying in position Reinforced cement concrete M25 Using 20 mm nominal size graded crushed coarse aggregates for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel	Cum	20.09	6900.96	138641.00	–	–	20.09	6900.96	138627.00	20.09	138627.00

Sl No	Description of Work	Unit	As per Schedule			Measurement						
7	Providing and laying in position Reinforced cement concrete M25 Using 20 mm nominal size graded crushed coarse aggregates for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all	Cum	17.62	7369.95	129859.00	–	–	17.57	7369.95	129472.00	17.57	129472.00
8	Providing and laying in position Reinforced cement concrete M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements	Cum	2.16	7608.56	16435.00	–	–	2.16	7608.56	16435.00	2.16	16435.00
9	Providing and laying in position Reinforced cement concrete M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements	Cum	20.37	8300.25	169077.00		–	20.32	8300.25	168630.00	20.32	168630.00
10	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	63.05	5984.34	377313.00	–	–	40.42	5984.34	241908.00	40.42	241908.00
11	Providing and laying in position Reinforced cement concrete Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all	Cum	68.22	6574.72	448528.00	–	–	68.20	6574.72	448397.00	68.20	448397.00
12	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not	Kgs	6626.24	107.34	711277.00	–	–	6626.15	107.34	711267.00	6626.15	711267.00

Sl No	Description of Work	Unit										
13	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour,	Sqm	27.00	1337.31	36108.00	–	–	27.00	1337.31	36108.00	27.00	36108.00
14	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour,	Sqm	29.01	1364.05	39572.00	–	–	29.01	1364.05	39572.00	29.01	39572.00
15	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge	Sqm	63.00	334.33	21063.00	–	–	58.32	334.33	19498.00	58.32	19498.00
16	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	57.45	341.02	19592.00	–	–	57.45	341.02	19592.00	57.45	19592.00
17	Providing 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing	Sqm	19.96	242.93	4849.00	–	–	19.96	242.93	4849.00	19.96	4849.00
18	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m^2 over and including priming coat of exterior primer applied @ 2.20 kg/10 m^2) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	63.00	152.07	9581.00	–	–	58.32	152.07	8869.00	58.32	8869.00
19	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications: Two coats applied on walls @ 1.25 ltr/10 m^2 over and including one coat of Special primer applied @ 0.75 ltr /10 m^2 with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge	Sqm	77.42	131.94	10215.00	–	–	77.42	131.94	10215.00	77.42	10215.00

Sl No	Description of Work	Unit										
20	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.	Sqm	140.42	92.81	13032.00	–	–	135.74	92.81	12598.00	135.74	12598.00
21	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc.	Kgs	1869.21	177.79	332320.00	–	–	1869.21	177.79	332320.00	1869.21	332320.00
22	Providing & fixing of 2-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having a overall size of 60mm width x 45mmheight with reinforcement of 1mm thickness and Sash with overall size of 39mm X 58mm with GI reinforcement of 1mm for the frame and 1.5 mm for the sash. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock. Wall thickness of frame & sash shall be of 2-2.5 mm. Maximum possible size – 1819mm x 1819mm (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made).	Sqm	2.25	7168.46	16130.00			2.25	7168.46	16130.00	2.25	16130.00
23	Providing and fixing Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	Kgs	1070.55	136.41	146039.00			1070.55	136.41	146039.00	1070.55	146039.00
24	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	210.96	100.63	21230.00			210.60	100.63	21194.00	210.60	21194.00

Sl No	Description of Work	Unit										
25	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. (for payment purpose only weight of stainless steel	Kgs	1190.16	559.08	665389.00			1186.09	559.08	663113.00	1186.09	663113.00
26	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.	Sqm	223.20	3209.09	716269.00			223.20	3209.09	716269.00	223.20	716269.00
27	Providing and fixing Structural Steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	KGS	11520.00	116.29	1339634.00			11520.00	116.29	1339634.00	11520.00	1339634.00
28	Providing and laying non-asbestos high impact polypropylene reinforced corrugated cement roofing sheet reinforced with a blend of strong factory made fibers as per IS:14871 and ISO:9933:1995(E) roofing upto any pitch and fixing with polymer coated J or L hooks,bolts and nuts 8mm dia,G.I plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete but excluding the cost of purlins, rafters and trusses. Including cutting to size and shape of corrugated sheets wherever required,and cost of materials, labour, complete as per	Sqm	216.00	600.45	129697.00			216.00	600.45	129697.00	216.00	129697.00
29	Providing and Applying PU based Elastomeric Liquid Applied PU Waterproofing Membrane single component, cold applied, water based acrylic PU dispersion with highly elastic and UV resistant water proofing treatment to the Existing Roof surface/Chajjas/Sunken portion of WC:Bathroom applied @ 1.2L/per m2,having tensile strength greater than 1.5N/mm2, elongation greater than 300% with solid content not less than 60% in 2 coats including surface preparation, priming the surface with water based acrylic primer @0.1 L/m2, and spreading 60 gsm geotextile between two top coats completely as per specification. The finished cost to include surface preparation,	Sqm	188.41	642.94	121136.00			188.41	642.94	121136.00	188.41	121136.00

Sl No	Description of Work	Unit										
30	Earth work excavation by manual means In all kinds of soils Depth upto 1.5 m for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work	Cum	37.50	207.98	7800.00			36.71	207.98	7635.00	36.71	7635.00
31	Providing and laying in position Reinforced cement concrete M20 Using 20 mm nominal size graded crushed coarse aggregates for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)	Cum	10.12	7006.78	70909.00			10.12	7006.78	70909.00	10.12	70909.00
32	Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications.	Tonne	0.61	93998.40	57340.00			0.61	93998.40	57340.00	0.61	57340.00
33	Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge (Approved Rate)	Sqm	22.50	2316.81	52129.00			22.50	2316.81	52129.00	22.50	52129.00
34	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete	Nos	156.00	566.90	88437.00			154.00	566.90	87303.00	154.00	87303.00
35	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces.	Sqm	70.00	95.04	6653.00			24.22	95.04	2302.00	24.22	2302.00

Sl No	Description of Work	Unit										
36	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour, rolling, water, all materials,usage& all other appurtenaces required to complete the work.	Cum	178.20	449.50	80101.00			178.14	449.50	80074.00	178.14	80074.00
37	Construction of Granular Sub-Base For Grading -II Material of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401.	Cum	118.80	2680.21	318409.00	–	–	118.76	2680.21	318302.00	118.76	318302.00
38	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications.	Sqm	594.00	1215.43	721965.00	–	–	593.80	1215.43	721722.00	593.80	721722.00
39	Supplying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. a) 19/20 mm dia 2 mm thick.	m	150.00	69.12	10369.00	–	–	150.00	69.12	10369.00	150.00	10369.00
40	Supplying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, junction boxes, adhesive paste	m	120.00	81.32	9759.00	–	–	120.00	81.32	9759.00	120.00	9759.00
41	Supplying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using	m	150.00	62.01	9301.00	–	–	150.00	62.01	9301.00	150.00	9301.00

Sl No	Description of Work	Unit									
42	Supplying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.	m	120.00	71.16	8539.00	–	–	120.00	71.16	8539.00	120.00	8539.00
43	Groove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes	m	150.00	76.24	11436.00		–	150.00	76.24	11436.00	150.00	11436.00
44	Groove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary.	m	120.00	81.32	9759.00	–	–	120.00	81.32	9759.00	120.00	9759.00
45	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc. c) 135x75x65mm	Each	15.00	133.16	1998.00	–	–	15.00	133.16	1998.00	15.00	1998.00
46	d)180x90x65mm	Each	15.00	158.00	2370.00	–	–	15.00	158.00	2370.00	15.00	2370.00
47	e)200x90x65mm	Each	15.00	171.79	2577.00	–	–	15.00	171.79	2577.00	15.00	2577.00
48	Supplying and fixing PVC/metal conduit accessories.(3/5) b)25mm junction box	Each	20.00	52.00	1040.00	–	–	20.00	52.00	1040.00	20.00	1040.00
49	c) 32mm deep junction box	Each	20.00	70.14	1403.00	–	–	20.00	70.14	1403.00	20.00	1403.00
50	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work cpmplete.a)12xx"12"x3" (330x300x76mm)	m	12.00	113.85	1367.00	–	–	12.00	113.85	1367.00	12.00	1367.00
51	b)12"x9"x3" (300x228x76)	m	6.00	106.73	641.00	–	–	6.00	106.73	641.00	6.00	641.00
52	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose	Each	10.00	281.00	2810.00	–	–	10.00	281.00	2810.00	10.00	2810.00
53	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point)	Each	10.00	392.37	3924.00	–	–	10.00	392.37	3924.00	10.00	3924.00
54	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire without switch, the other end of the	Each	10.00	255.14	2552.00	–	–	10.00	255.14	2552.00	10.00	2552.00
55	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box	Each	10.00	367.00	3670.00	–	–	10.00	367.00	3670.00	10.00	3670.00

Sl No	Description of Work											
56	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. (ELE SR 2021-22 Page-5, Item-3.5.3)	Each	10.00	248.03	2481.00			10.00	248.03	2481.00	10.00	2481.00
57	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate.a) 6Amps one way.	Each	4.00	89.45	358.00			4.00	89.45	358.00	4.00	358.00
58	i) 32Amps DP switch	Each	4.00	382.00	1528.00			4.00	382.00	1528.00	4.00	1528.00
59	j) 6/16Amps universal socket	Each	10.00	254.00	2540.00			10.00	254.00	2540.00	10.00	2540.00
60	Supplying and fixing 32Amps security and energy saving DP switch with key tag suitable to operate on 230 Volts, 50Hz AC supply &completely wired on existing box.	Each	6.00	760.00	4560.00			6.00	760.00	4560.00	6.00	4560.00
61	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. b. 1.5 sqmm	m	220.00	26.43	5815.00			220.00	26.43	5815.00	220.00	5815.00
62	c. 2.5 sqmm	m	180.00	40.66	7319.00			180.00	40.66	7319.00	180.00	7319.00
63	d.4 sqmm	m	120.00	60.00	7200.00			120.00	60.00	7200.00	120.00	7200.00
64	Supplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like bends, screws at an interval of 300mm .... Etc as required. 20mm.	m	10.00	27.45	275.00			10.00	27.45	275.00	10.00	275.00
65	Supplying PVC/GI flexible conduit pipe 20mm dia fixing on surface over inverted wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pipe terminated completely.	Nos	10.00	25.41	255.00			10.00	25.41	255.00	10.00	255.00
66	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. 110mm	Nos	10.00	12.20	122.00	–	–	10.00	12.20	122.00	10.00	122.00
67	Supplying a 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slap.	Nos	10.00	8.13	82.00	–	–	10.00	8.13	82.00	10.00	82.00
68	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40 A SP.	Each	5.00	738.00	3690.00	–	–	5.00	738.00	3690.00	5.00	3690.00
69	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 40 A DP.	Each	10.00	1388.00	13880.00	–	–	10.00	1388.00	13880.00	10.00	13880.00

Sl No	Description of Work	Unit										
70	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898, 40 A DP.	Each	10.00	1386.00	13860.00	–	–	10.00	1386.00	13860.00	10.00	13860.00
71	Supplying and fixing of slim box fitting, made out of CRCA Sheet metal body with locking type holder completely wired. Excluding Ballast & Flouresent Tube. 1 x 4' Tube light fitting.	Each	24.00	316.00	7584.00	–	–	24.00	316.00	7584.00	24.00	7584.00
72	Supplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury content & below 40% glass content than T8 lamp & 20% less phosphor coating than T8 with initial lumen on 1350 (for 3000-6500 deg Kelvin), rated Avg life (12 Hr. Cycle) of greater than 35000 burring hours. Operating voltage range from 180V to 265V, 50Hz AC power Supply 28 watts Lamp	Each	24.00	175.00	4200.00	–	–	24.00	175.00	4200.00	24.00	4200.00
73	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc, for operation on 230 V, 50 cycles. Single phase AC supply conforming to ISS-374- 1979 and with double ball bearing system. 56" Sweep (1400 mm) Regular model.	Each	8.00	2207.00	17656.00	–	–	8.00	2207.00	17656.00	8.00	17656.00
74	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S" hook with fan regulator to the existing board together with supplying and fixing 5 A. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring.	Each	8.00	165.00	1320.00		–	8.00	165.00	1320.00	8.00	1320.00
75	Supplying of recess mounting non integrated type LED down light..... W luminaire comprising of pressure decast/ extruded aluminium housing, with spring loaded false ceiling clA, LED of Power/COB with CCT 6500 degree K, CRI> 70%. efficacy >100 lumen per W, 120degree beam spread, life> 25000 burning hours and Compliance to IS10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with anti glare opal diffuser which enhances the lighting level. LED's are driven by HF electronic driver integrated in a separate control gear assembly., with PF > 0.95, power loss should< 5% of lamp Wage, short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 V. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. 10-12W .	Each	20.00	1503.00	30060.00	–	–	20.00	1503.00	30060.00	20.00	30060.00

Sl No	Description of Work	Unit										
76	Fixing all types and all capacities of fluorescent /false ceiling /spot light / CFL / LED fittings indoor on the wall/ ceiling /rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clA. On wall/ ceiling / Rafter / Girders	Each	20.00	121.05	2421.00	–	–	20.00	121.05	2421.00	20.00	2421.0l
	Total				8525140.00			SUB TOTAL		8270334.00		827033400
	GST 18%				1534525.20			GST 18%		1488660.12		148866012
	Grand Total				10059665.20			GRAND TOTAL		9758994.12		975899412

CERTIFICATE

1 Certified that the work done is satisfactorily.

2 There is no departmental issues by BBMP

Contractor

Consultants

Assistant Engineer

ಸಹಾಯಕ Asst. Executive Engineer
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